

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Algebra Practice Problems - Solving Systems of  
Equations by SubstitutionWorksheet generated at **www.math.com**

$$\begin{aligned} 1.) \quad & x = 3y - 13 \\ & 4x - 5y = -17 \end{aligned}$$

$$\begin{aligned} 2.) \quad & 5x = -2y - 43 \\ & x = 3y + 5 \end{aligned}$$

$$\begin{aligned} 3.) \quad & y = 2x + 1 \\ & y + 4x = 13 \end{aligned}$$

$$\begin{aligned} 4.) \quad & 3x = -3y + 21 \\ & x = -2y + 15 \end{aligned}$$

$$\begin{aligned} 5.) \quad & x = -4y - 10 \\ & x + 2y = -2 \end{aligned}$$

$$\begin{aligned} 6.) \quad & 3y + x = 12 \\ & y = -2x + 9 \end{aligned}$$

$$\begin{aligned} 7.) \quad & 3y + x = 39 \\ & y = 4x - 26 \end{aligned}$$

$$\begin{aligned} 8.) \quad & y = -2x - 9 \\ & -5y - 3x = 45 \end{aligned}$$

$$\begin{aligned} 9.) \quad & x = -y - 7 \\ & 4x - y = 2 \end{aligned}$$

$$\begin{aligned} 10.) \quad & y = -3x + 21 \\ & 5x = 35 + 4y \end{aligned}$$

$$\begin{aligned} 11.) \quad & x = 4y - 12 \\ & x = -y + 8 \end{aligned}$$

$$\begin{aligned} 12.) \quad & -2y + 4x = 6 \\ & y = -4x - 3 \end{aligned}$$

$$\begin{aligned} 13.) \quad x &= -3y + 5 \\ x + 5y &= 5 \end{aligned}$$

$$\begin{aligned} 14.) \quad -2x &= 2y + 6 \\ x &= -4y - 6 \end{aligned}$$

$$\begin{aligned} 15.) \quad y &= -2x + 16 \\ 4x &= 40 - 4y \end{aligned}$$

$$\begin{aligned} 16.) \quad -y + 5x &= -1 \\ y &= -3x - 7 \end{aligned}$$

$$\begin{aligned} 17.) \quad -2y + 3x &= 0 \\ y &= -4x + 22 \end{aligned}$$

$$\begin{aligned} 18.) \quad y + 3x &= -36 \\ y &= -4x - 46 \end{aligned}$$

$$\begin{aligned} 19.) \quad y &= -3x + 7 \\ 4x &= -4 - 4y \end{aligned}$$

$$\begin{aligned} 20.) \quad 2y + 3x &= -31 \\ y &= 4x + 12 \end{aligned}$$